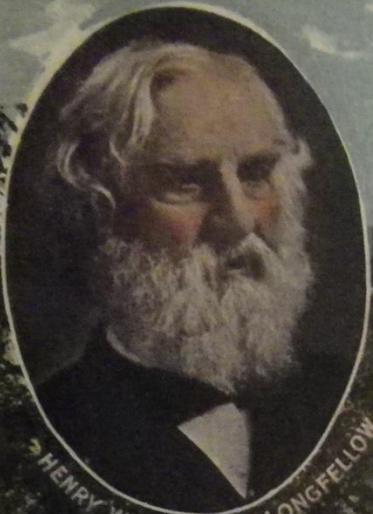


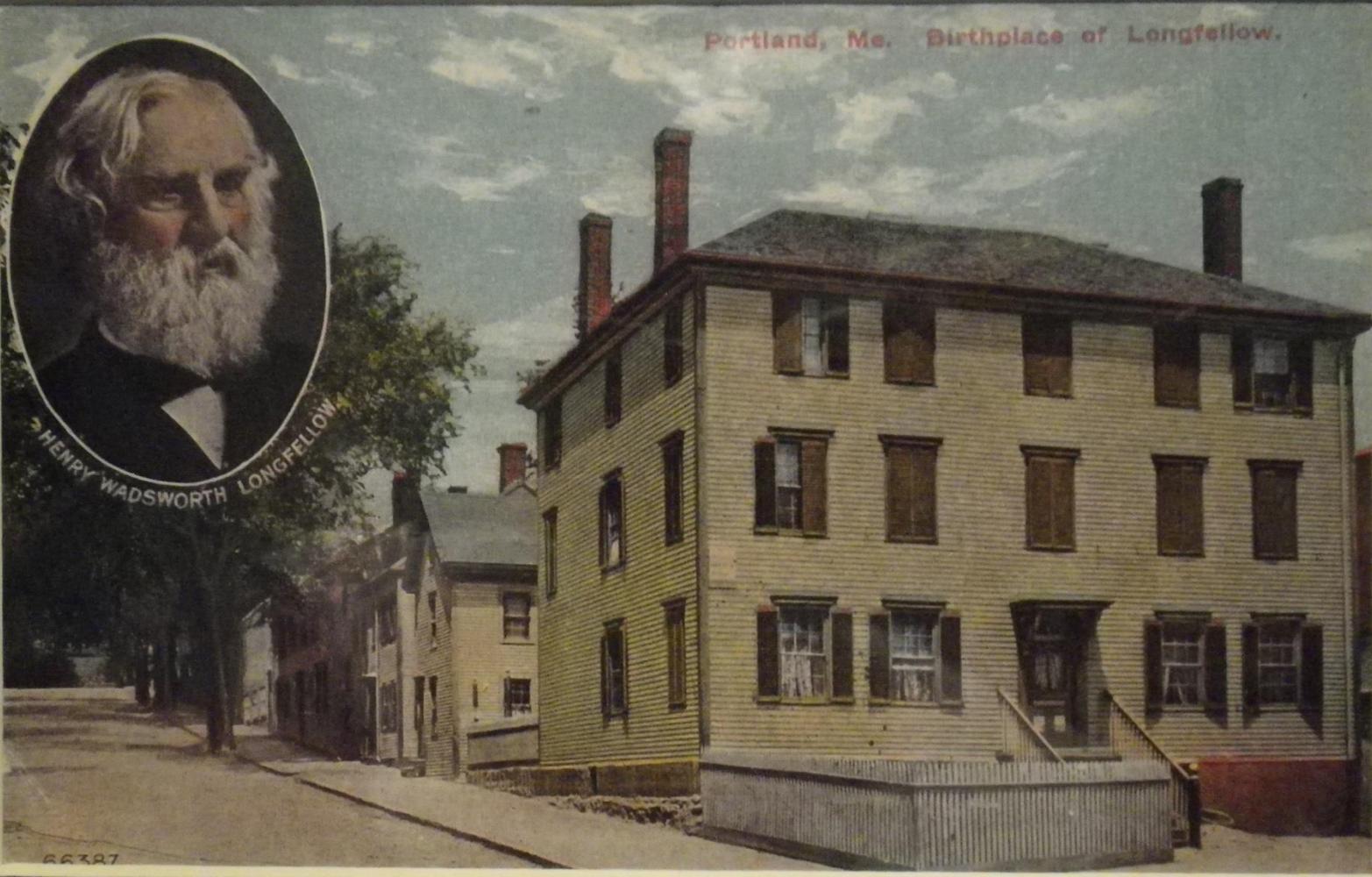
2016 NEPSR Pipeline Safety Seminar Vermont presentation



Portland, Me. Birthplace of Longfellow.



HENRY WADSWORTH LONGFELLOW



66387



The Vermont Department of Public Service
112 State St. Montpelier, VT 05620-2601

GC Morris
Gas Engineer
802-828-4073
gc.morris@state.vt.us

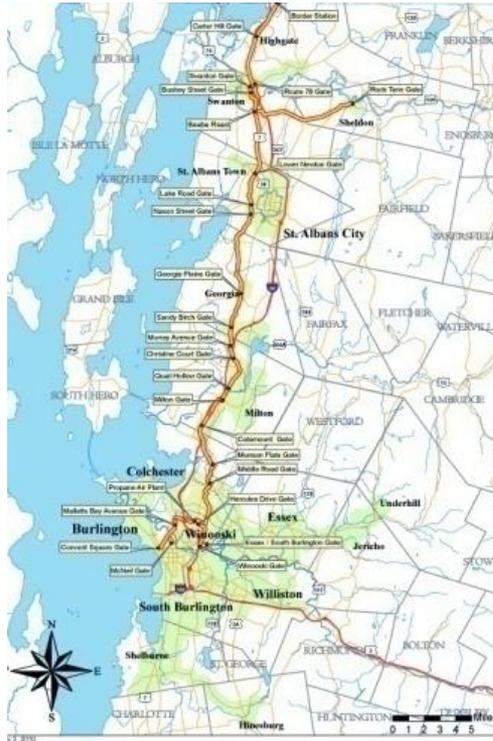
Program Staffing Overview

- 1 full-time PM/inspector1 full-time administrative coordinator
- 1 full-time administrative coordinator
- 1 part-time inspector
- 1 part-time Engineering Director/tech support
- 1 part-time damage prevention investigation/administrator
- 1 part time attorney

Intrastate Pipeline Facilities

- Intrastate Gas: One Operator
 - Transmission mileage: 74
 - Distribution mileage: 780
 - Number of services: 50,000

Current Gas Transmission Miles



10" dia: 40 miles
16" dia: 21 miles
12" dia: 11 miles

6" dia: 2 miles
8" dia: 5 miles
total HCA miles: 3.27

Distribution Materials

- Bare steel: 0
- Cast iron: 0

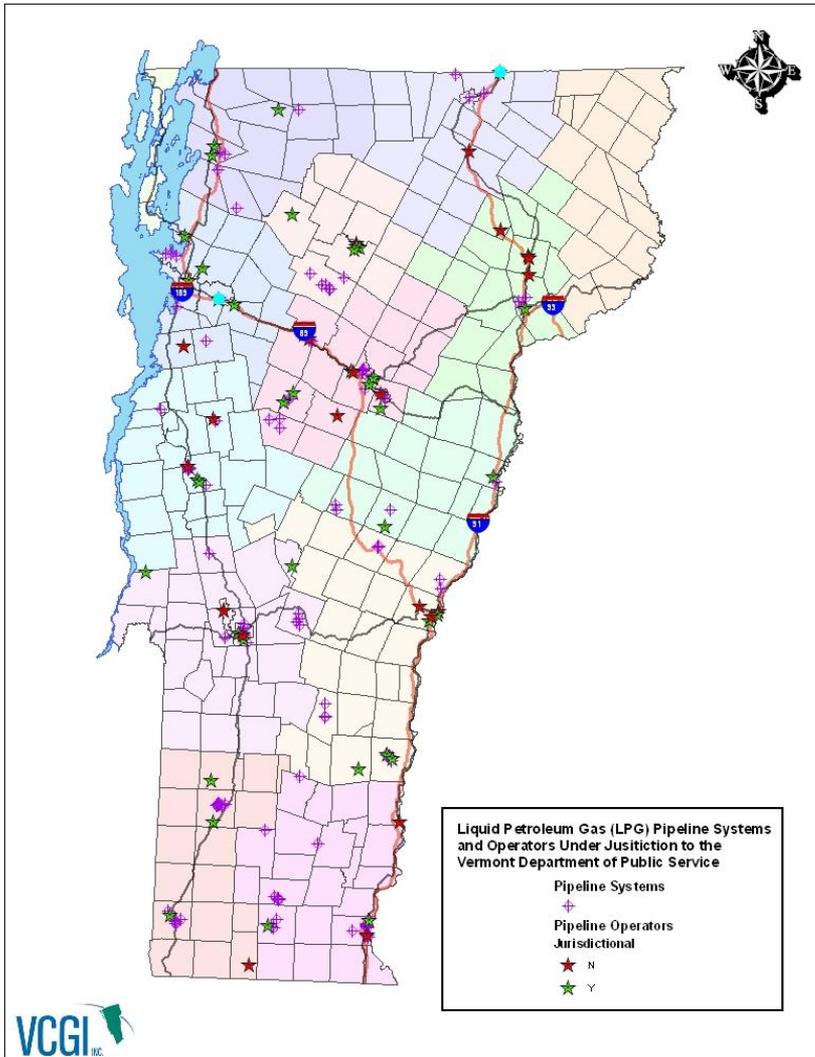
- Mains: 780 miles
 - PE : 602 miles
 - Steel : 178 miles

- Services: 38,522
 - PE : 34,020
 - Steel : 4,502

Other Intrastate Pipeline Facilities

| | |
|-------------------------------|------------------------|
| ■ LNG Operators | 1 (non-jurisdictional) |
| ■ Gathering | 0 |
| ■ Master Meter operators | 0 |
| ■ Jurisdictional LP operators | 18 |

Propane Pipeline Facilities



18 LPG operators
342 LPG pipeline systems

3238 customers
1544 public places
1694 private places

Recent Top Enforcement Issues

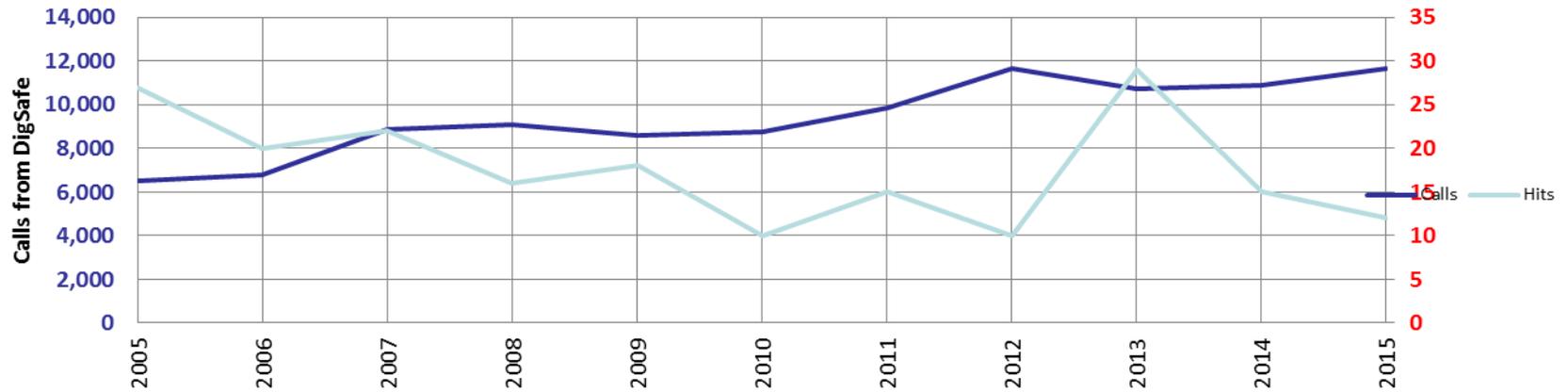
- Construction
- OQ
- DIMP
- Public Awareness

Damage Prevention Statistics 2015

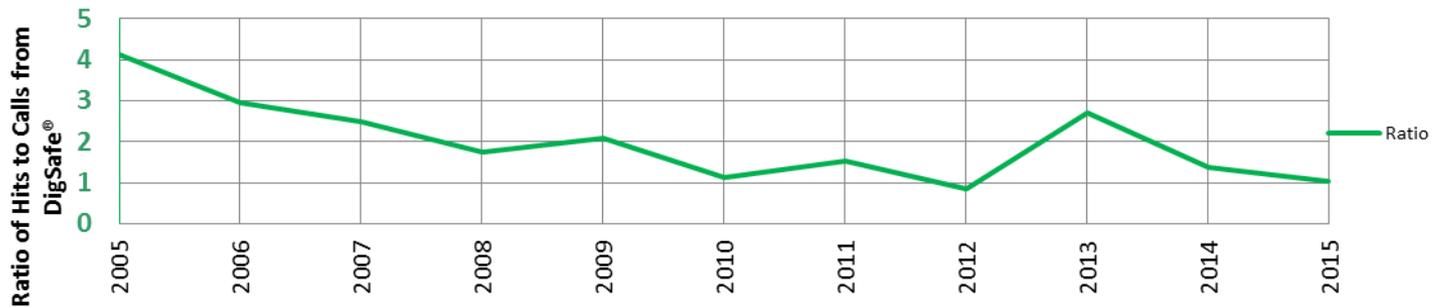
- ▣ Total # of locate request:
50,000
- ▣ Number of Pipeline Damages:
127
- ▣ Damages per thousand tickets:
2.54
- ▣ Number of violations issued:
(enter number of violations)
- ▣ Amount of civil penalties collected:
- ▣ Top causes for damages?

Gas Lines Hit Per Year

Vermont Gas Systems



VT Gas Systems



Special Permits Requested / Granted

- Vermont has no history of granting any special permits

Program Accomplishments

- Damage prevention outreach
- Draft rule making
- Inspection plan Development
- Propane outreach programs
- Transmission Construction

Area's of Emphasis

- 32 miles of Transmission Construction
- Standard inspection Rotations
- Web site development

▪







PROPANE BULK PLANT FACILITY ODORANT TEST REPORT FORM

Name of System Commerce Whse/Fld. Pk. Plant
System Address 17 Stone Rd Monmouth, NJ
Time of Test 4:25pm Date 4/25/15
Instrument Home Converter
Serial Number 250430007 Calibration Date 8-6-14
Employee Performing Test Tony Kusner
Employee Signature Tony Kusner

Dear level
 Nil
 Barely Detectable
 Readily Detectable
 Strong

Percent Reading at "Readily Detectable" 50

| % LEL | Propane % Gas/Air |
|-------|-------------------|
| 10 | 0.2 |
| 20 | 0.4 |
| 30 | 0.6 |
| 40 | 0.8 |
| 60 | 1.2 |
| 80 | 1.6 |
| 100 | 2 |

Propane LEL 2.15
must be detectable at 1/5 of LEL (20%)
43 Parts Per Million is 1/5 of LEL (20%)

Gas Supplier _____
*accounted for Gas: _____
MAOP (within last year) _____



R600 and HSR600

Integral Two-stage Regulator

The Type HSR600 integral two-stage regulator contains a first stage pressure-reducing valve and a second stage pressure-reducing valve. The second stage pressure-reducing valve is a high-pressure valve. The first stage pressure-reducing valve is a low-pressure valve. The first stage pressure-reducing valve is a high-pressure valve. The second stage pressure-reducing valve is a low-pressure valve. The first stage pressure-reducing valve is a high-pressure valve. The second stage pressure-reducing valve is a low-pressure valve.

Integral Two-pipe Service Regulator

The Type HSR600 integral two-pipe service regulator contains a first stage pressure-reducing valve and a second stage pressure-reducing valve. The second stage pressure-reducing valve is a high-pressure valve. The first stage pressure-reducing valve is a low-pressure valve. The first stage pressure-reducing valve is a high-pressure valve. The second stage pressure-reducing valve is a low-pressure valve.

Installation

WARNING

All units should be kept open to prevent flow of air in and out of the regulator to prevent overpressure against the regulator or piping. Do not install in a location where the regulator will be subjected to vibration or excessive noise. Do not install in a location where the regulator will be subjected to excessive heat or cold. Do not install in a location where the regulator will be subjected to excessive moisture. Do not install in a location where the regulator will be subjected to excessive dirt or debris. Do not install in a location where the regulator will be subjected to excessive oil or grease. Do not install in a location where the regulator will be subjected to excessive UV radiation. Do not install in a location where the regulator will be subjected to excessive mechanical stress. Do not install in a location where the regulator will be subjected to excessive electrical stress. Do not install in a location where the regulator will be subjected to excessive magnetic stress. Do not install in a location where the regulator will be subjected to excessive radio frequency interference. Do not install in a location where the regulator will be subjected to excessive electromagnetic interference. Do not install in a location where the regulator will be subjected to excessive static electricity. Do not install in a location where the regulator will be subjected to excessive lightning strikes. Do not install in a location where the regulator will be subjected to excessive fire or explosion. Do not install in a location where the regulator will be subjected to excessive seismic activity. Do not install in a location where the regulator will be subjected to excessive wind or hail. Do not install in a location where the regulator will be subjected to excessive snow or ice. Do not install in a location where the regulator will be subjected to excessive salt or corrosion. Do not install in a location where the regulator will be subjected to excessive acid or alkali. Do not install in a location where the regulator will be subjected to excessive organic solvents. Do not install in a location where the regulator will be subjected to excessive inorganic solvents. Do not install in a location where the regulator will be subjected to excessive oxidizing agents. Do not install in a location where the regulator will be subjected to excessive reducing agents. Do not install in a location where the regulator will be subjected to excessive catalysts. Do not install in a location where the regulator will be subjected to excessive inhibitors. Do not install in a location where the regulator will be subjected to excessive stabilizers. Do not install in a location where the regulator will be subjected to excessive antioxidants. Do not install in a location where the regulator will be subjected to excessive flame retardants. Do not install in a location where the regulator will be subjected to excessive smoke suppressants. Do not install in a location where the regulator will be subjected to excessive fire extinguishers. Do not install in a location where the regulator will be subjected to excessive fire alarms. Do not install in a location where the regulator will be subjected to excessive fire sprinklers. Do not install in a location where the regulator will be subjected to excessive fire detectors. Do not install in a location where the regulator will be subjected to excessive fire extinguishers. Do not install in a location where the regulator will be subjected to excessive fire alarms. Do not install in a location where the regulator will be subjected to excessive fire sprinklers. Do not install in a location where the regulator will be subjected to excessive fire detectors.

Types R6221, R6222, R6223, R6224 and R6225 regulators are not suitable for indoor installation. Never use a Type R6221, R6222, R6223 or R6225 (our 1/2-in. to 3/4-in. regulator or low pressure (piches of water column) service

| TYPE | TYPICAL APPLICATION | | RELIEF VALVE SPECIFICATIONS | | RELIEF VALVE SPECIFICATIONS | |
|-------|---------------------|------|-----------------------------|------|-----------------------------|------|
| | PSI | BAR | PSI | BAR | PSI | BAR |
| R6221 | 11 in. w.c. | 0.76 | 1 | 0.07 | 1 | 0.07 |
| R6222 | 11 in. w.c. | 0.76 | 1 | 0.07 | 1 | 0.07 |
| R6223 | 11 in. w.c. | 0.76 | 1 | 0.07 | 1 | 0.07 |
| R6224 | 11 in. w.c. | 0.76 | 1 | 0.07 | 1 | 0.07 |
| R6225 | 11 in. w.c. | 0.76 | 1 | 0.07 | 1 | 0.07 |

General Installation Instructions

- Check for damage, which might have occurred in shipment.
- Check for and remove any oil or grease residue, which may have accumulated in the regulator body.
- Remove old gaskets. Block out any debris or old gaskets in the copper body and the piping.
- Apply pipe compound to the male threads of the gas pipe.
- Make sure gas flow through the regulator is the same direction as the arrow on the "in" and "out" connections are clearly marked.

Figure 2 - Regulator with Test Pressure Gauge













Questions or Comments?



Thank You!

